

Application No. 10/810,049
Amendment dated August 4, 2006
Reply to Office Action of April 6, 2006

LISTING OF CLAIMS

1. (Currently Amended) A multi-layer thin film coating for use with photochromic lenses, said multi-layer thin film comprising a plurality of dielectric layers for deposition onto a photochromic lens, said dielectric layers selected and arranged so as to reflect an amount less than about 15% of spectral UVA-ultraviolet radiation in a range between 315 and 400 nm; said dielectric layers selected and arranged to reflect at least some light in the visible spectrum so as to exhibit a visible colored appearance when observed from a side opposite from the photochromic lens.
2. (Canceled)
3. (Currently Amended) The multi-layer thin film coating according to claim 1, wherein the multi-layer thin film coating reflects less than 6% of spectral UVA-ultraviolet radiation.
4. (Original) The multi-layer thin film coating according to claim 1, wherein the plurality of dielectric layers comprises SiO₂.
5. (Original) The multi-layer thin film coating according to claim 1, wherein the plurality of dielectric layers comprises TiO₂.
6. (Original) The multi-layer thin film coating according to claim 1, wherein the plurality of dielectric layers alternate low and high refractive indices.
7. (Original) The multi-layer thin film coating according to claim 1, wherein the plurality of dielectric layers comprises ZrO₂.
8. (Original) The multi-layer thin film coating according to claim 1, wherein the plurality of dielectric layers comprises twelve layers.

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9. (Original) The multi-layer thin film coating according to claim 1, wherein the plurality of dielectric layers comprises four layers.

10. (Original) The multi-layer thin film coating according to claim 1, wherein the plurality of dielectric layers comprises up to 100 layers.

11. (Original) The multi-layer thin film coating according to claim 1, wherein the multi-layer thin film coating has an activation value greater than 40% of the activation value of the photochromic lens.

12. (Original) The multi-layer thin film coating according to claim 1, wherein the multi-layer thin film coating has an activation value greater than 90% of the activation value of the photochromic lens.

13. (Original) The multi-layer thin film coating according to claim 1, wherein the multi-layer thin film coating has an activation value greater than 97% of the activation value of the photochromic lens.

14. (Original) The multi-layer thin film coating according to claim 1, wherein the multi-layer thin film coating has an activation value substantially equal to the activation value of the photochromic lens.

15. (Original) The multi-layer thin film coating according to claim 1, wherein the multi-layer thin film coating has an activation value greater than about 25%.

16. (Previously Presented) The multi-layer thin film coating according to claim 1, said dielectric layers selected and arranged so as to exhibit a mirror like appearance at least when observed from a side opposite from the photochromic lens.

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17. (Previously Presented) The multi-layer thin film coating according to claim 1, said dielectric layers selected and arranged so as to exhibit a silver like appearance at least when observed from a side opposite from the photochromic lens.

18. (Previously Presented) The multi-layer thin film coating according to claim 1, said dielectric layers selected and arranged in a sequence: TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, so as to obtain a silver mirror like appearance when observed from a side opposite from the photochromic lens.

19. (Currently Amended) A photochromic sunglass lens having a visible colored appearance, the photochromic sunglass lens having a visible colored appearance and comprising a multi-layer thin film, the multi-layer thin film comprising a plurality of SiO₂ layers and a plurality of TiO₂ layers, wherein the film reflects an amount less than about 15% of spectral UVA-ultraviolet radiation in a range between 315 and 400 nm and reflects at least some light in the visible spectrum so as to exhibit the visible colored appearance.

20. (Previously Presented) The lens of claim 19, wherein the colored appearance comprises a mirror like appearance.

21. (Previously Presented) The lens of claim 19, comprising a twelve layer arrangement comprising alternating TiO₂ and SiO₂ layers.

22. (Previously Presented) The lens of claim 19, wherein the colored appearance comprises a white silver like appearance.

23. (Previously Presented) The lens of claim 19, comprising a twelve layer arrangement comprising TiO₂, SiO₂ and ZrO₂ layers.

24. (Currently Amended) A method of creating a colored photochromic lens having a reflectance of less than about 15% of spectral UVA-ultraviolet radiation in a range between 315

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and 400 nm, the method comprising applying a plurality of layers of TiO₂ and SiO₂ onto a photochromic lens wherein the plurality of layers collectively reflect at least some light in the visible spectrum so as to exhibit a visible colored appearance.

25. (Previously Presented) The method of claim 24, the method comprising applying twelve layers of TiO₂ and SiO₂ on the photochromic lens in a sequence: TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, in order to obtain a silver mirror like appearance.

26. (Previously Presented) The method of claim 24, the method comprising applying twelve layers of TiO₂, SiO₂ and ZrO₂ on the photochromic lens in a sequence: TiO₂, SiO₂, TiO₂, SiO₂, ZrO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, ZrO₂, SiO₂, in order to obtain a white silver like appearance.